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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,696	07/01/2004	Yoon-Won Kim	7037-69151-01	3101
24107 7550 08/13/2008 KLARQUIST SPARKMAN, LLP 121 SW SALMON STREET			EXAMINER	
			BLUMEL, BENJAMIN P	
SUITE 1600 PORTLAND,	OR 97204		ART UNIT	PAPER NUMBER
			1648	
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			08/13/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/500,696 KIM ET AL. Office Action Summary Examiner Art Unit BENJAMIN P. BLUMEL 1648 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 13 May 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) 4-9.11 and 12 is/are withdrawn from consideration. 5) Claim(s) 1,2 and 13 is/are allowed. 6) ☐ Claim(s) 10 and 14 is/are rejected. 7) Claim(s) 3 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 01 July 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _______

5) Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

Applicants are informed that the rejections of the previous Office action not stated below have been withdrawn from consideration in view of the Applicant's arguments and/or amendments.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 13, 2008 has been entered.

Claims 1-3, 10, 13 and 14 are examined on the merits. Claims 13 and 14 are new claims.

Election/Restrictions

This application contains claims 4-9, 11 and 12 drawn to an invention nonelected with traverse in the reply filed on February 13, 2007.

Claim Rejections - 35 USC § 112

(Prior Rejection Maintained) Claim 10 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for treatment of EMC-DV induced diabetes development in mice, does not reasonably provide enablement for preventing and/or treating all viral infections claimed. The specification does not enable any person skilled in the art to which

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it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims

Applicants amended the preamble of claim 10, thus deleting "...prevention...", however the claim still recites, "...preventively..." in line 2 of claim 10. Therefore, the rejection is maintained for reasons of record.

(New Rejection) Claim 14 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The claimed invention is drawn to the VSF protein of claim 1 that is produced by hybridoma 4D 1B (accession number KCLRF-BP-00052). However, the requirements according to 37 CFR 1.803 have not been met.

It is apparent that the hybridoma is required to practice the claimed invention because they are a necessary limitation for the success of the invention as stated in the claims. As a required element it must be known and readily available to the public or obtainable by a repeatable method set forth in the specification, or otherwise readily available to the public. If it is not so obtainable or available, the enablement requirements of 35 U.S.C. § 112, first paragraph, may be satisfied by a deposit of the claimed hybridoma. See 37 CFR 1.802. One cannot practice the claimed invention without this specific hybridoma that produces the VSF protein of claim 1. One cannot determine whether any hybridoma produces the claimed protein without access to the claimed hybridoma. Therefore, access to claimed hybridoma is required to practice the invention. The specification does not provide a repeatable method for producing the claimed VSF protein from any hybridoma without access to the claimed hybridoma and it does not appear to be readily available material.

Deposit of the claimed hybridoma in a recognized deposit facility would satisfy the enablement requirements of 35 U.S.C. 112., because the strains would be readily available to the public to practice the invention claimed, see 37 CFR 1.801-37 CFR 1.809.

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If a deposit is made under the terms of the Budapest Treaty, then an affidavit or declaration by applicants or someone associated with the patent owner who is in a position to make such assurances, or a statement by an attorney of record over his or her signature, stating that the deposit has been made under the terms of the Budapest Treaty and that all restrictions imposed by the depositor on the availability to the public of the deposited material will be irrevocably removed upon the granting of a patent, would satisfy the deposit requirements. See 37 CFR 1808

If a deposit is not made under the terms of the Budapest Treaty, then an affidavit or declaration by applicants or someone associated with the patent owner who is in a position to make such assurances, or a statement by an attorney of record over his or her signature, stating that the deposit has been made at an acceptable depository and that the following criteria have been met: (a) during the pendency of this application, access to the invention will be afforded to one determined by the Commissioner to be entitled thereto;

- (b) all restrictions imposed by the depositor on the availability to the public of the deposited material will be irrevocably removed upon granting of the patent;
- (c) the deposit will be maintained for a term of at least thirty (30) years and at least five (5) years after the most recent request for the furnishing of a sample of the deposited material;
- (d) a viability statement in accordance with the provisions of 37 CFR 1.807; and
- (e) the deposit will be replaced should it become necessary due to inviability, contamination or loss of capability to function in the manner described in the specification.

In addition the identifying information set forth in 37 CFR 1.809(d) should be added to the specification. See 37 CFR 1.803 - 37 CFR 1.809 for additional explanation of these requirements.

Claim Objections

Claim 3 is objected to because of the following informalities: the claim recites, "...the antiviral activity is to suppress proliferation or replication of a virus belonging to the genus Orthomyxovirus, Picornavirus, Retrovirus, or Herpesvirus...", however, upon further review of the taxonomy of viruses, the proper genus for the viruses discussed in the specification are Cardiovirus-(EMC-DV or Mengovirus), Lentivirus-(HIV, SIV and FIV), Vesiculovirus-(VSV), and Influenzavirus A, Influenzavirus B, or Influenza C (influenza viruses) or the family of Orthomyxoviridae-(influenza viruses). The examiner also suggests that applicants amend the specification in order to support these proposed amendments. Appropriate correction is required. Art Unit: 1648

Summarv

Claims 1-3, 10, 13 and 14 are free of the prior art of record.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN P. BLUMEL whose telephone number is (571)272-4960. The examiner can normally be reached on M-F, 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-1600. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stacy B Chen/ Primary Examiner, Art Unit 1648 /BENJAMIN P BLUMEL/ Examiner Art Unit 1648